

West Lake Landfill: EPA / START (Tetrattech & Seagull) SOW (call 04022014 @ 0930 hours):

Overview: EPA is in the preliminary stages of developing an air monitoring plan to sample for landfill constituents prior to the isolation barrier installation. The plan is to document background conditions off the site prior to construction activities and to also monitor during construction activities to determine if any releases are occurring above health based benchmarks, and then to end the monitoring at the conclusion of the barrier installation. We plan to sample for typical solid waste landfill gases such as sulfur dioxide (SO₂), hydrogen sulfide (H₂S), carbon monoxide (CO) and volatile organic compounds (VOCs). Radiation monitoring for radon, alpha, beta and gamma emissions will also be conducted.

The plan is to place 5 monitoring location in/around the Bridgeton area. EPA will secure access agreements. START will acquire equipment, trailer, electrical set-up, personal to conduct air monitoring. Each station will conduct radiation and air monitoring for COC's. T. Faile was provided with a copy of the IGCE / TO / Westlake Air Monitoring Recon Summary document dated 4/1/14. There are five components (at a minimum) to be implemented: all will be either hourly, daily, weekly, month, and/or quarterly for the next 3 – 15 months.). The contaminants of concern (COC's) are: radiation (alpha, beta, gamma, and radon), SO₂, H₂S, CO, & VOC's.

Air monitoring: AreaRae (VIPER or other radio telemetry communication system).

Air sampling: Summa canisters for COC's.

Radiation air monitoring: TLD's, ATD's E-Perms – includes Radon.

Radiation air sampling: Radeco air sampler and gamma tracers.

Data gathering, automation, integration, assessment, interpretation, and publishing.

Tentative timetable for implementation: April 7 – 21, 2014 for access agreements, equipment procurement, technical assistance (START will provide a HASP, QAPP, JHA, Trip Report).

EPA will contact ERT for Gamma Tracer and VIPER systems.

This effort is a TOP priority of the RA and a HIGH concern to the general public and State of Missouri.